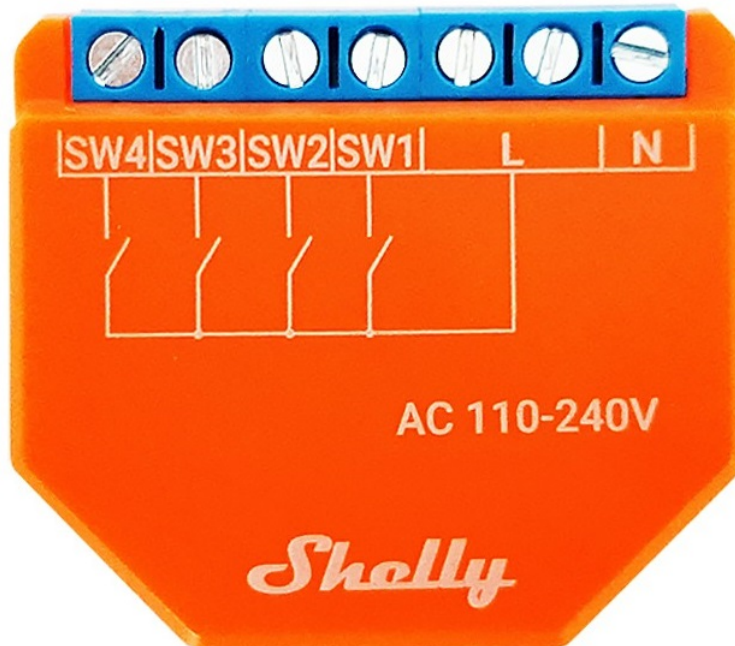




Shelly Plus i4 4 Digital Inputs Controller User Guide

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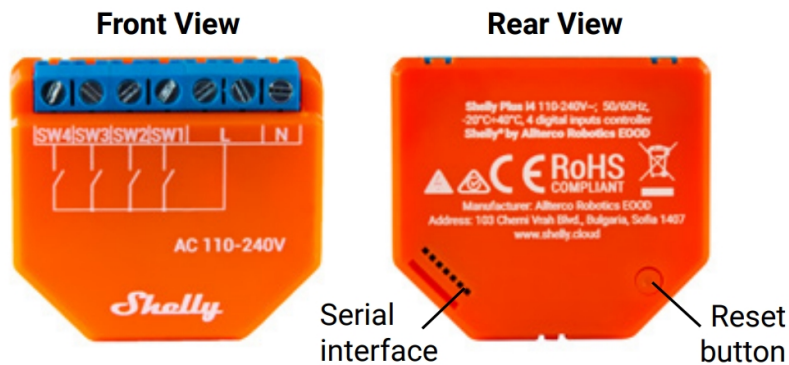
Shelly Plus i4 4 Digital Inputs Controller User Guide



Read before use

This document contains important technical and safety information about the device, its safety use and installation.

⚠ CAUTION! Before beginning the installation, please read this guide and any other documents accompanying the device carefully and completely. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law or refusal of legal and/or commercial guarantee (if any). Allterco Robotics EOOD is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.



⚠ **CAUTION!** High voltage. Do not connect to the serial interface, when Shelly® Plus i4 is power supplied.

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Product Introduction

Shelly® is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits through a mobile phone, tablet, PC, or home automation system. Shelly® devices can work standalone in a local Wi-Fi network or they can also be operated through cloud home automation services. Shelly Cloud is a service that can be accessed using either Android or iOS mobile application, or with any internet browser at <https://home.shelly.cloud/>. Shelly® devices can be accessed, controlled and monitored remotely from any place where the User has internet connectivity, as long as the devices are connected to a Wi-Fi router and the Internet. Shelly® devices have embedded Web Interface accessible at <http://192.168.33.1> when connected directly to the device's access point, or at the device's IP address on the local Wi-Fi network. The embedded Web Interface can be used to monitor and control the device, as well as adjust its settings.

Shelly® devices can communicate directly with other Wi-Fi devices through HTTP protocol. An API is provided by Allterco Robotics EOOD. For more information, please visit: <https://shelly-api-docs.shelly.cloud/#shelly-family-overview>.

Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformity, including security updates, Allterco Robotics EOOD will provide the updates free of charge through the device embedded Web Interface or Shelly Mobile Application, where the information about the current firmware version is available. The choice to install or not the Device firmware updates is User's sole responsibility. Allterco Robotics EOOD shall not be liable for any lack of conformity of the Device caused by failure of the User to install the provided updates in a timely manner.

Control your home with your voice

Shelly® devices are compatible with Amazon Alexa and Google Home supported functionalities. Please see our

step-bystep guide on: <https://shelly.cloud/support/compatibility/>.

Schematics

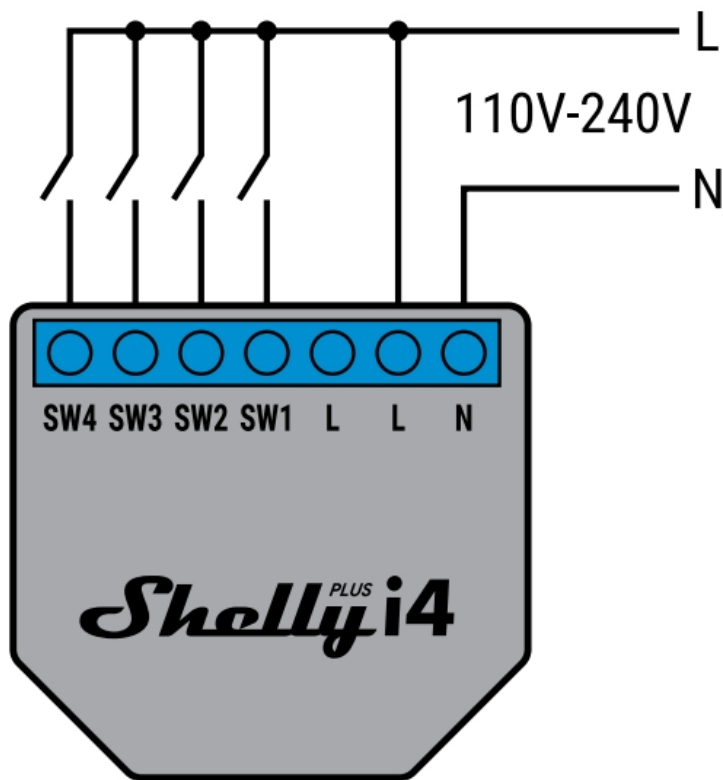


fig. 1

Legend

- **N:** Neutral terminal / wire
- **L:** Live (110-240V) terminal / wire
- **SW1:** Switch terminal
- **SW2:** Switch terminal
- **SW3:** Switch terminal
- **SW4:** Switch terminal

Installation Instructions

Shelly® Plus i4 (the Device) is a Wi-Fi switch input designed to control other devices over the Internet. It can be retrofitted into a standard in-wall console, behind light switches or other places with limited space.

⚠ **CAUTION!** Danger of electrocution. Mounting/installation of the Device to the power grid has to be performed with caution, by a qualified electrician.

⚠ **CAUTION!** Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.

⚠ **CAUTION!** Use the Device only with a power grid and appliances which comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage the Device.

⚠ **CAUTION!** Connect the Device only in the way shown in these instructions. Any other method could cause

damage and/or injury

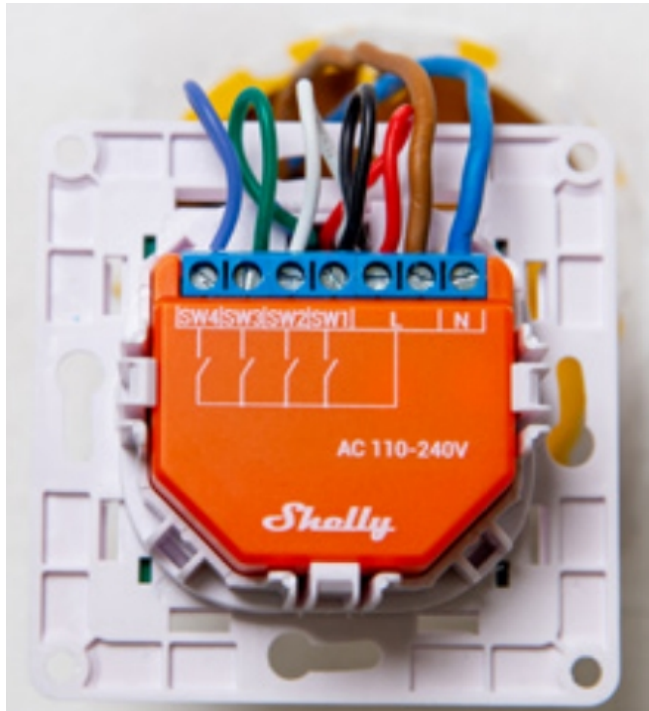
⚠ **CAUTION!** Do not install the device at a place that is possible to get wet.

Before starting installing/mounting the Device, wire check

that the breakers are turned off and there is no voltage on their terminals. This can be done with a phase meter or multimeter. When you are sure that there is no voltage, you can proceed to connecting the cables.

Connect a switch or a button to a “SW” terminal of the Device and the Live wire as shown on **fig. 1**.

Connect the Live wire to an “L” terminal and the Neutral wire to the “N” terminal of the Device.



⚠ **CAUTION!** Do not insert multiple wires in a single terminal.

Troubleshooting

In case you encounter problems with the installation or operation of Shelly® Plus i4, please check its knowledge base page: <https://shelly.cloud/knowledge-base/devices/shelly-plus-i4/>

Initial Inclusion

If you choose to use the Device with the Shelly Cloud mobile application and Shelly Cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly App can be found in the “App Guide”.

The Shelly Mobile Application and Shelly Cloud service are not conditions for the Device to function properly. This Device can be used stand-alone or with various other home automation platforms and protocols.

⚠ **CAUTION!** Do not allow children to play with the buttons/ switches connected to the Device. Keep the Devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

Specifications

- **Power supply:** 110-240V, 50/60Hz AC
- **Dimensions (HxWxD):** 42x38x17 mm
- **Working temperature:** -20°C to 40°C
- **Electrical consumption:** < 1 W
- **Multi-click support:** Up to 12 possible actions (3 per button)

- **Wi-Fi:** Yes
- **Bluetooth:** Yes
- **Radio protocol:** Wi-Fi 802.11 b/g/n
- **Radio signal power:** 1 mW
- **Frequency Wi-Fi :** 2412-2472 MHz; (Max. 2495 MHz)
- **RF output Wi-Fi:** < 15 dB
- **Operational range (depending on terrain and building structure):** up to 50 m outdoors, up to 30 m indoors
- **Bluetooth:** v4.2
- **Bluetooth modulation:** GFSK, $\pi/4$ -DQPSK, 8-DPSK
- **Frequency Bluetooth:** TX/RX: 2402- 2480 MHz (Max. 2483.5MHz)
- **RF output Bluetooth:** < 5 dB
- **Scripting (mjs):** Yes
- **MQTT:** Yes
- **Webhooks (URL actions):** 20 with 5 URLs per hook
- **CPU:** ESP32
- **Flash:** 4 MB

Declaration of conformity

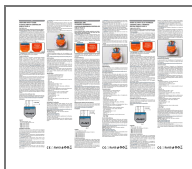
Hereby, Allterco Robotics EOOD declares that the radio equipment type Shelly Plus i4 in compliance with Directive 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://shelly.cloud/knowledge-base/devices/shelly-plus-i4/>

Customer Support

Manufacturer: Allterco Robotics EOOD
Address: Bulgaria, Sofia, 1407, 103 Cherni vrah Blvd.
Tel.: +359 2 988 7435
E-mail: support@shelly.cloud
Web: <https://www.shelly.cloud>

Changes in the contact data are published by the Manufacturer at the official website.
 All rights to trademark Shelly® and other intellectual rights associated with this Device belong to Allterco Robotics EOOD.

Documents / Resources



[Shelly Plus i4 4 Digital Inputs Controller](#) [pdf] User Guide
 Plus i4, 4 Digital Inputs Controller, Plus i4 4 Digital Inputs Controller, Digital Inputs Controller, Inputs Controller, Controller

References

- [Shelly - Shelly](#)
- [Shelly Home](#)
- [Welcome to Shelly Technical Documentation | Shelly Technical Documentation](#)

- [↪ Shelly Plus i4](#)
- [↪ Shelly Smart Control](#)
- [↪ Shelly - Shelly](#)

Manuals+.